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**ABSTRACT**

The invention relates to an oxidation dyeing process for human keratin fibres, which comprises applying to the fibres a dye composition (A) containing, in a medium which is suitable for dyeing, at least one oxidation dye precursor and optionally one or more couplers; developing the colour in alkaline, neutral or acidic medium using an oxidizing composition (B) containing an oxidizing agent, at least one of the compositions (A) and (B) also containing an effective amount of at least one cationic amphiphilic polymer chosen from quaternized celluloses modified with groups containing at least one fatty chain, chosen from alkyl, arylalkyl and alkylaryl groups containing at least 8 carbon atoms, or mixtures thereof, and quaternized hydroxyethylcelluloses modified with groups containing at least one fatty chain, chosen from alkyl, arylalkyl and alkylaryl groups containing at least 8 carbon atoms, or mixtures thereof; the compositions (A) and (B) being mixed together immediately before use or applied one after the other to the keratin fibres.